

09980325\_CLS

Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09980325 on June 25, 2004

Original Classifications

4 381/408  
2 367/175  
2 381/190  
2 381/431  
2 381/96

Cross-Reference Classifications

3 73/728  
3 381/354  
2 181/159  
2 181/171  
2 181/174  
2 336/30  
2 340/388.1  
2 367/182  
2 381/348  
2 381/396  
2 381/401  
2 381/402  
2 381/431

Combined Classifications

5 381/408  
4 73/728  
4 381/431  
3 336/30  
3 340/388.1  
3 367/175  
3 381/354  
3 381/396  
2 73/708  
2 181/159  
2 181/171  
2 181/174  
2 335/231  
2 367/182  
2 381/162  
2 381/186  
2 381/190  
2 381/348  
2 381/398  
2 381/401  
2 381/402

09980325\_CLS

2 381/417

2 381/419

2 381/96

## 09980325\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09980325 on June 25, 2004

5 381/408 (4 OR, 1 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
AND DEVICES  
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER  
381/396 .Electromagnetic (e.g., dynamic)  
381/400 ..Movable voice coil  
381/408 ...Pattern

4 73/728 (1 OR, 3 XR)  
Class 073 : MEASURING AND TESTING  
73/700 FLUID PRESSURE GAUGE  
73/715 .Diaphragm  
73/723 ..With electrical readout  
73/728 ...Electromagnetic

4 381/431 (2 OR, 2 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
AND DEVICES  
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER  
381/396 .Electromagnetic (e.g., dynamic)  
381/423 ..Specified diaphragm shape or structure  
381/431 ...Flat

3 336/30 (1 OR, 2 XR)  
Class 336 : INDUCTOR DEVICES  
336/30 WITH CONDITION-RESPONSIVE INDUCTANCE ADJUSTING  
MEANS (E.G., BY ELECTROMAGNET)

3 340/388.1 (1 OR, 2 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/384.1 AUDIBLE INDICATION  
340/388.1 .Diaphragm (e.g., horn or buzzer)

3 367/175 (2 OR, 1 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES  
367/140 SIGNAL TRANSDUCERS  
367/141 .Underwater type  
367/174 ..Transducer with diaphragm  
367/175 ...Diaphragm with electric driving coil

3 381/354 (0 OR, 3 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS

09980325\_CLSTITLES  
AND DEVICES

381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER  
381/337 .Having acoustic wave modifying structure  
381/354 ..Absorbing or attenuating element

3 381/396 (1 OR, 2 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
AND DEVICES  
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER  
381/396 .Electromagnetic (e.g., dynamic)

2 73/708 (1 OR, 1 XR)  
Class 073 : MEASURING AND TESTING  
73/700 FLUID PRESSURE GAUGE  
73/708 .With pressure and/or temperature compensation

2 181/159 (0 OR, 2 XR)  
Class 181 : ACOUSTICS  
181/157 DIAPHRAGM  
181/159 .With horn

2 181/171 (0 OR, 2 XR)  
Class 181 : ACOUSTICS  
181/157 DIAPHRAGM  
181/171 .Mounting or suspension means

2 181/174 (0 OR, 2 XR)  
Class 181 : ACOUSTICS  
181/157 DIAPHRAGM  
181/173 .Particular shape  
181/174 ..Variable thickness

2 335/231 (1 OR, 1 XR)  
Class 335 : ELECTRICITY: MAGNETICALLY OPERATED SWITCHES,  
MAGNETS, AND ELECTROMAGNETS  
335/209 MAGNETS AND ELECTROMAGNETS  
335/220 .With magneto-mechanical motive device (e.g.,  
electromagnet with armature)  
335/229 ..With permanent magnet  
335/230 ...Polarized electromagnet  
335/231 ....Varying alternating current amplitude  
responsive

2 367/182 (0 OR, 2 XR)  
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE  
SYSTEMS AND DEVICES  
367/140 SIGNAL TRANSDUCERS

09980325\_CLSTITLES

- 367/178 .Receivers  
367/182 ..Moving coil
- 2 381/162 (1 OR, 1 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
AND DEVICES  
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER  
381/162 .Detail of mechanical vibration coupling to  
transducer (e.g., tuned vibrating element)
- 2 381/186 (1 OR, 1 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
AND DEVICES  
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER  
381/182 .Plural or compound reproducers  
381/186 ..Plural diaphragms
- 2 381/190 (2 OR, 0 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
AND DEVICES  
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER  
381/190 .Electrostrictive, magnetostrictive, or  
piezoelectric
- 2 381/348 (0 OR, 2 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
AND DEVICES  
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER  
381/337 .Having acoustic wave modifying structure  
381/345 ..Acoustic enclosure  
381/346 ...Acoustic resistance  
381/348 ....On rear side of diaphragm
- 2 381/398 (1 OR, 1 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
AND DEVICES  
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER  
381/396 .Electromagnetic (e.g., dynamic)  
381/398 ..Having diaphragm support feature
- 2 381/401 (0 OR, 2 XR)  
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
AND DEVICES  
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER  
381/396 .Electromagnetic (e.g., dynamic)  
381/400 ..Movable voice coil  
381/401 ...Multiple voice coils

09980325\_CLSTITLES

- 2 381/402 (0 OR, 2 XR)
  - Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
  - 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
  - 381/396 .Electromagnetic (e.g., dynamic)
  - 381/400 ..Movable voice coil
  - 381/401 ...Multiple voice coils
  - 381/402 ....For different frequencies
  
- 2 381/417 (1 OR, 1 XR)
  - Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
  - 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
  - 381/396 .Electromagnetic (e.g., dynamic)
  - 381/412 ..Magnetic circuit
  - 381/417 ...Armature diaphragm
  
- 2 381/419 (1 OR, 1 XR)
  - Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
  - 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
  - 381/396 .Electromagnetic (e.g., dynamic)
  - 381/412 ..Magnetic circuit
  - 381/419 ...Not having central magnetic portion
  
- 2 381/96 (2 OR, 0 XR)
  - Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
  - 381/96 LOUDSPEAKER FEEDBACK

09980325\_EAST

(5796854  
4257325  
4782817  
4821245  
4829828  
5197104  
5305288  
5315877  
5373487  
5381231  
5493620  
6083082  
6139488  
6328647  
6600400  
6658133  
6671383  
4459992  
4597286  
4949806  
5218337  
5419204  
5652801  
6053873  
3686446  
3674946  
3651283  
3645293  
3919500  
3873784  
3801943  
3792874  
4001765  
4015227  
4020296  
4081627  
4281223  
4283605  
4284857  
4297538  
4311040  
4326419  
4334321  
4353050  
4374377  
4384173  
4385210  
4395916